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EUROPEAN PATENT APPLICATION

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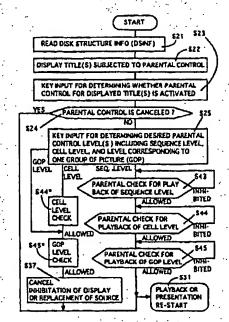
- (84) Designated Contracting States:

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- (30) Priority: 14.04.1995 JP 114005/95
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(54) Information storage and information transmission media with parental control

(57) Parental information of a video program recorded on an optical disk is always checked (S43 to S45) in a disk player. Even if a jump of laser beam tracing of an optical head erroneously occurs due to shocks or vibrations, the content of parental information assigned to the destination of optical head jumping is checked, to thereby achieve an accurate parental control of selective restriction for the video whose reproduction or presentation is restricted by the parental information.





Category		cument with indication of relevant passages	, where appropriat		televant • ctaim	CLASSIFICATION OF THE APPLICATION (INLCL6)
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A	LITE WHOTE	document		21 40 48 79	19, 1-37, 1,44, 3-76, 1,83,	TECHNICAL FILLDS SEARCHED (IMCL6) G11B H04N H04H H04K G06F
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tegory	Citation of document with indication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Inl.CL6)		
	WO 95 03655 A (OAKLEIGH SYSTEMS, INC.)	1,5,20, 91,95, 105,108			
() ()	* page 6, line 18 - line 24 * * page 7, line 33 - page 8, line 27 *				
	* page 11, line 12 - line 30 * * page 12, line 7 - page 13, line 15;				
· ·	figures 3,5 *	9-19.			
· .		21-37,			
. : . :		40,44,			
·		48-76, 79,83,			
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i		1,5,20,			
٠.:	PATENT ABSTRACTS OF JAPAN vol. 18, no. 365 (P-1767), 8 July 1994	91,95,			
	& JP 06 095871 A (FUJITSU, LTD.), 8 April	105,108			
; ·.	1994,		: -		
i .,	* abstract * P.A:&US 5440631 A	1	TECHNICAL FIELDS SEARCHED (INC.6)		
		9-19,	DEARCHED (INC.)		
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ategory	Citation of document with indication, where appropriate, of relevant presurges	Relevant to claim	CLASSIFICATION OF THE APPLICATION (INCCL)		
	PATENT ABSTRACTS OF JAPAN	1,40,79			
	vol. 7, no. 253 (P-235), 10 November 1983				
	& JP 58 137138 A (SANYO DENKI K.K.), 15	ļ	l		
:	# 15:30 13/130 W (30010 Denvi Krack) To	1	.!		
	August 1983,	:	: ' :		
	* abstract *	5,9-37,	• • •		
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•		48-76,	, ;		
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		88,91,			
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	401400 11 11	1,79,91	· ·		
K	EP 0 406 021 A (SHARP K.K.)		'l · · · · ·		
		105			
	* page 22, line 45 - page 23, line 19 *	E 0 27			
Α,		5,9-37,			
-		83,84,			
		88,95,98	9		
		1, 20 21	TECHNICAL FIELDS		
(EP 0 459 157 A (NEC CORPORATION)	1,20,21	SEARCHED (INCLA)		
	·	29,95			
•	* the whole document *	1	1 : 1		
Α .		5,9-19,			
•		22-28,			
:		30-37,	1		
•		89,105			
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P,X	EP 0 677 842 A (K.K.TOSHIBA)	1,2,4-6	,		
• • • •		8-38,			
		95-98,	•		
		105,106	•		
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)	
	EP O 668 695 A (VICTOR COMPANY OF JAPAN,	5-7,12,		
P,X				
	LIMITED)	14,15,		
	· · · · · · · · · · · · · · · · · · ·	21,24,	;	
		30,33,	•	
		38,39		
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	" the whole document	11.3		
P,A		1-3,		
()		9-11,13,	•	
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		34-37,		
		95,96,	:	
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, i	UN OF 1997E A CTIME LIABUED ENTENTATIMENT	1,2,4,	:	
P,X	WO 95 12275 A (TIME WARNER ENTERTAINMENT			
1	CO., L.P.)	20,29,		
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:		105,106,	<u> </u>	
4		108	TECHNICAL FIELDS	
	* the whole document *		SEARCHED (Int.Cl.6)	
	* the whole document *	5 0 20		
P.A		5,9-38		
. :		1	•	
P.X	WO 95 12200 A (TIME WARNER ENTERTAINMENT	1,2,4,		
	CO., L.P.)	20,29,		
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Application Number

EP 96 10 5817

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (INLCL6)		
A	EP 0 450 841 A (GTE LABORATORIES, INC.)	1,2,5,6, 9-37,40, 41,44, 45,			
		48-77. 95.96. 98.101. 105.106			
-	* column 2, line 6 - line 12 * * column 3, line 10 - column 4, line 55 *	:			
Á	US 5 172 111 A (OLIVO, JR.)	1,2,4-6, 8-38,79, 80, 82-85, 87-89, 91,92, 94-98,			
•	* the whole document *	105,106, 108	TECHNICAL FUELDS SEARCHUD (INCLE)		
A	US 4 930 160 A (VOGEL)	1-6. 8-38,40, 41. 43-45. 47-77. 95-98. 101,105, 106,108			
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A	US 4 930 158 A (VOGEL) * the whole document *	1,2,4-6, 8-38, 95-98, 101,105, 106,108			
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\ _{1} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	EP 0 389 689 A (PHILIPS AND DU PONT OPTICAL DEUTSCHLAND GMBH.)	1,5, 9-37,40, 44,	200	
		48-76, 95,98, 105		
[4]	* the whole document *			
	* the whole document *	1.5, 9-37,79, 83,84, 88,91, 95,105		
	EP 0 593 305 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.)	1,5, 9-37,79, 83,84, 88,91, 95,98,	TECHNICAL FIELDS	
	* the whole document * PATENT ABSTRACTS OF JAPAN vol. 18, no. 574 (P-1821), 2 November 1994 & JP 06 208760 A (TOSHIBA CORP.), 26 July	1,5, 9-37,40, 44, 48-76,	SEARCHED (Int.Ct.6)	
	1994, * abstract *	95,98,		
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Application Number

EP 96 10 5817

ategory	DOCUMENTS CONSIDER Citation of document with indication of resevant passages		Reievant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)		
	EP 0 424 903 A (NEC COR	PORATION)	1,5, 9-37,40, 44, 48-76, 79,83, 84,88, 91,95, 98,105			
			1.5	: :		
·, A	* the whole document *	HIBAJ	1,5, 9-37,40, 44. 48-76, 95,98, 105			
P,A	EP 0 675 493 A (K.K.TO	HIBA)	1,2,4-6, 8-38,			
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European Patent Office

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions, namely:

1. Claims 1-39,79-108:

Recording medium and recording and reproducing apparatus.

2. Claims 40-78

System for broadcasting or communicating information.

EPO Form Supplementary Sheet B (1996)

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